UT Date 2001-10-24 Observers M Calkins
Coll. Focus 1020 Grating/Grism $\qquad$ 0

| File | Exp Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0001-0009. DARK | 900 | 1:03 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | \#57 Velocity S | 4 |  |
| 0010-0019.BIAS | 0 | 1:21 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | \#57 Velocity S | 4 |  |
| 0020-0029.FLAT | 6 | 1:24 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | \#57 Velocity S | 4 |  |
| 0030-0039.BIAS | 0 | 1:28 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | \#57 Velocity S | 2 |  |
| 0040-0049.FLAT | 12 | 1:33 | 11:04:27.4 | +38:12:32 | 300 | 90 | 3.0 | \#57 Velocity S | 2 |  |
| 0050.BDp284211 | 40 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | \#56 Spectropho | 2 |  |
| 0051.BDp284211 | 40 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | \#56 Spectropho | 2 |  |
| $0052 . \mathrm{COMP}$ | 12 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | \#56 Spectropho | 2 |  |
| 0053.BDp284211 | 40 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 104 | 3.0 | \#56 Spectropho | 2 |  |
| 0054.BDp284211 | 40 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 104 | 3.0 | \#56 Spectropho | 2 |  |
| 0055.COMP | 12 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 104 | 3.0 | \#56 Spectropho | 2 |  |
| 0056.BDp284211 | 40 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | \#56 Spectropho | 4 |  |
| 0057.BDp284211 | 40 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | \#56 Spectropho | 4 |  |
| 0058. COMP | 5 | 1:33 | 21:48:57.1 | 28:37:48 | 300 | 90 | 3.0 | \#56 Spectropho | 4 |  |
| 0059.N7331 | 180 | 1:33 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | \#57 Velocity S | 2 |  |
| 0060.COMP | 12 | 1:33 | 22:34:46.9 | +34:09:43 | 300 | 90 | 3.0 | \#57 Velocity S | 2 |  |
| 0061.id1338 | 360 | 1:33 | 20:07:00.3 | 35:48:34 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 | row $=77$ |
| $0062 . \mathrm{COMP}$ | 12 | 1:33 | 20:07:00.3 | 35:48:34 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0063.id1340 | 420 | 1:33 | 20:07:00.0 | 35:38:35 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0064.COMP | 12 | 1:33 | 20:07:00.0 | 35:38:35 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |

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| File | Exp <br> Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0065.id1418 | 480 | 1:33 | 20:06:52.7 | 35:51:07 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0066.COMP | 12 | 1:33 | 20:06:52.7 | 35:51:07 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0067.id1595 | 420 | 1:33 | 20:06:25.9 | 35:54:35 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0068.COMP | 12 | 1:33 | 20:06:25.9 | 35:54:35 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0069.id2936 | 360 | 1:33 | 19:58:07.4 | 35:11:40 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0070.COMP | 12 | 1:33 | 19:58:07.4 | 35:11:40 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0071.id1425 | 360 | 1:33 | 20:06:51.3 | 35:39:06 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0072.COMP | 12 | 1:33 | 20:06:51.3 | 35:39:06 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0073.id1669 | 420 | 1:33 | 20:06:18.0 | 35:54:12 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0074.COMP | 12 | 1:33 | 20:06:18.0 | 35:54:12 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0075.id2198 | 420 | 1:33 | 20:05:13.5 | 35:47:48 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0076.COMP | 12 | 1:33 | 20:05:13.5 | 35:47:48 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0077.id2200 | 600 | 1:33 | 20:05:13.5 | 35:55:00 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0078. COMP | 12 | 1:33 | 20:05:13.5 | 35:55:00 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0079.id2354 | 480 | 1:33 | 20:04:44.7 | 35:38:20 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0080.COMP | 12 | 1:33 | 20:04:44.7 | 35:38:20 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0081.id2761 | 420 | 1:33 | 19:59:16.1 | 35:13:20 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0082. COMP | 12 | 1:33 | 19:59:16.1 | 35:13:20 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0083.id2254 | 360 | 1:33 | 20:05:07.1 | 35:51:31 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0084.COMP | 12 | 1:33 | 20:05:07.1 | 35:51:31 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |

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| File | Exp <br> Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0085.id2645 | 360 | 1:33 | 19:59:57.9 | 35:17:58 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0086.COMP | 12 | 1:33 | 19:59:57.9 | 35:17:58 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0087.id1254 | 480 | 1:33 | 20:07:09.3 | 35:34:57 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0088.COMP | 12 | 1:33 | 20:07:09.3 | 35:34:57 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0089.id1553 | 420 | 1:33 | 20:06:31.6 | 35:42:03 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0090.COMP | 12 | 1:33 | 20:06:31.6 | 35:42:03 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0091.id2155 | 480 | 1:33 | 20:05:19.4 | 35:43:09 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0092.COMP | 12 | 1:33 | 20:05:19.4 | 35:43:09 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0093.id2796 | 420 | 1:33 | 19:59:01.0 | 35:17:34 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0094.COMP | 12 | 1:33 | 19:59:01.0 | 35:17:34 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0095.id1246 | 360 | 1:33 | 20:07:11.1 | 35:50:32 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0096.COMP | 12 | 1:33 | 20:07:11.1 | 35:50:32 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0097.id1587 | 420 | 1:33 | 20:06:26.4 | 35:39:01 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0098.COMP | 12 | 1:33 | 20:06:26.4 | 35:39:01 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0099.id2075 | 480 | 1:33 | 20:05:28.5 | 35:37:41 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0100.COMP | 12 | 1:33 | 20:05:28.5 | 35:37:41 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0101.id233 | 360 | 1:33 | 20:05:17.9 | 35:39:11 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0102.COMP | 12 | 1:33 | 20:05:17.9 | 35:39:11 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0103.id2564 | 540 | 1:33 | 20:04:05.0 | 35:47:33 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0104.COMP | 12 | 1:33 | 20:04:05.0 | 35:47:33 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |

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| File | Exp <br> Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0105.id2623 | 420 | 1:33 | 20:00:04.5 | 35:11:19 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0106.COMP | 12 | 1:33 | 20:00:04.5 | 35:11:19 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0107.id2820 | 420 | 1:33 | 19:58:54.5 | 35:20:08 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0108.COMP | 12 | 1:33 | 19:58:54.5 | 35:20:08 | 300 | 90 | 3.0 | \#115 PMS NGC68 | 2 |  |
| 0109.sn2001en | 1200 | 1:33 | 01:25:22.9 | +34:01:30 | 300 | 84 | 3.0 | \#2 SN Observat | 2 |  |
| 0110.COMP | 12 | 1:33 | 01:25:22.9 | +34:01:30 | 300 | 84 | 3.0 | \#2 SN Observat | 2 |  |
| 0111.sn2001eh | 1200 | 1:33 | 01:38:12.1 | 41:39:18 | 300 | 47 | 3.0 | \#2 SN Observat | 2 |  |
| 0112. COMP | 12 | 1:33 | 01:38:12.1 | 41:39:18 | 300 | 47 | 3.0 | \#2 SN Observat | 2 |  |
| 0113.IRAS_0340p3908 | 1200 | 1:33 | 03:43:56.6 | +39:17:40 | 300 | 90 | 3.0 | \#124 COLA | 2 |  |
| 0114.COMP | 12 | 1:33 | 03:43:56.6 | +39:17:40 | 300 | 90 | 3.0 | \#124 COLA | 2 |  |
| 0115.IRAS_0513p5811 | 1200 | 1:33 | 05:17:47.6 | +58:14:21 | 300 | -30 | 3.0 | \#124 COLA | 2 |  |
| 0116. IRAS_0513p5811 | 1200 | 1:33 | 05:17:47.6 | +58:14:21 | 300 | -30 | 3.0 | \#124 COLA | 2 |  |
| 0117. COMP | 12 | 1:33 | 05:17:47.6 | +58:14:21 | 300 | -30 | 3.0 | \#124 COLA | 2 |  |
| 0118. ZAnd | 1 | 1:33 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | \#12 Symbiotic | 2 |  |
| 0119. ZAnd | 3 | 1:33 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | \#12 Symbiotic | 2 |  |
| 0120. ZAnd | 5 | 1:33 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | \#12 Symbiotic | 2 |  |
| 0121. ZAnd | 17 | 1:33 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | \#12 Symbiotic | 2 |  |
| 0122.COMP | 12 | 1:33 | 23:33:40 | 48:49:06 | 300 | 90 | 3.0 | \#12 Symbiotic | 2 |  |
| 0123.a168_197 | 480 | 1:33 | 01:18:00.5 | -0:28:45 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0124.COMP | 12 | 1:33 | 01:18:00.5 | -0:28:45 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |

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| File | Exp <br> Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0125.a168_199 | 1200 | 1:33 | 01:08:51.0 | 2:09:14 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0126.COMP | 12 | 1:33 | 01:08:51.0 | 2:09:14 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0127.a168_200 | 1200 | 1:33 | 01:18:59.8 | -0:46:26 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0128. COMP | 12 | 1:33 | 01:18:59.8 | -0:46:26 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0129.a168_201 | 480 | 1:33 | 01:17:24.6 | -1:03:56 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0130.COMP | 12 | 1:33 | 01:17:24.6 | -1:03:56 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0131.a168_204 | 600 | 1:33 | 01:18:34.2 | 1:44:52 | 300 | 30 | 3.0 | \#64 Cluster In | 2 | row=85 |
| 0132.COMP | 12 | 1:33 | 01:18:34.2 | 1:44:52 | 300 | 30 | 3.0 | \#64 Cluster In | 2 |  |
| 0133.a168_205 | 480 | 1:33 | 01:20:29.5 | 0:35:08 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0134.COMP | 12 | 1:33 | 01:20:29.5 | 0:35:08 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0135.a168_210 | 600 | 1:33 | 01:16:02.5 | 2:27:08 | 300 | 30 | 3.0 | \#64 Cluster In | 2 |  |
| 0136. COMP | 12 | 1:33 | 01:16:02.5 | 2:27:08 | 300 | 30 | 3.0 | \#64 Cluster In | 2 |  |
| 0137.a168_212 | 420 | 1:33 | 01:22:11.2 | 1:45:09 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0138.COMP | 12 | 1:33 | 01:22:11.2 | 1:45:09 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0139.a168_214 | 540 | 1:33 | 01:14:28.1 | -0:51:49 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0140.COMP | 12 | 1:33 | 01:14:28.1 | -0:51:49 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0141.a168_216 | 780 | 1:33 | 01:24:39.0 | 0:29:16 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0142.COMP | 12 | 1:33 | 01:24:39.0 | 0:29:16 | 300 | 90 | 3.0 | \#64 Cluster In | 2 |  |
| 0143.sn2001ep | 1200 | 1:33 | 04:57:00.2 | -04:45:40 | 300 | -1 | 3.0 | \#2 SN Observat | 2 |  |
| 0144.COMP | 12 | 1:33 | 04:57:00.2 | -04:45:40 | 300 | -1 | 3.0 | \#2 SN Observat | 2 |  |

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| File | Exp Time | $\begin{aligned} & \text { UT } \\ & \text { Start } \end{aligned}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0165.COMP | 12 | 1:33 | 05:19:52.5 | -00:35:41 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| $0166.41 \mathrm{vso}-35300$ | 420 | 1:33 | 05:22:09.4 | -00:44:47 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| 0167. COMP | 12 | 1:33 | 05:22:09.4 | -00:44:47 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| 0168.42vso-35362 | 420 | 1:33 | 05:22:14.6 | -00:44:17 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| 0169.COMP | 12 | 1:33 | 05:22:14.6 | -00:44:17 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| $0170.43 \mathrm{vso}-35413$ | 480 | 1:33 | 05:22:19.2 | -00:44:55 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| 0171.COMP | 12 | 1:33 | 05:22:19.2 | -00:44:55 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| $0172.44 \mathrm{vso}-35596$ | 480 | 1:33 | 05:22:33.9 | -00:49:01 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| 0173.COMP | 12 | 1:33 | 05:22:33.9 | -00:49:01 | 300 | 89 | 3.0 | \#112 Orion PMS | 2 |  |
| 0174.Hiltner600 | 60 | 1:33 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#56 Spectropho | 2 |  |
| 0175.COMP | 12 | 1:33 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#56 Spectropho | 2 |  |
| 0176.Hiltner600 | 60 | 1:33 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#56 Spectropho | 4 |  |
| 0177. COMP | 5 | 1:33 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#56 Spectropho | 4 |  |
| 0178-0182.sky | 2 | 13:20 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 4 |  |
| 0183. COMP | 5 | 13:20 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 4 |  |
| 0184-0193.BIAS | 0 | 13:23 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 4 |  |
| 0194-0203.FLAT | 6 | 13:26 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 4 |  |
| 0204-0213.BIAS | 0 | 13:30 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 2 |  |
| 0214-0223.FLAT | 12 | 13:36 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 2 |  |
| 0224-0233.DARK | 900 | 16:01 | 06:42:37.2 | 02:11:25 | 300 | 89 | 3.0 | \#57 Velocity S | 2 |  |

